

Fig. 1

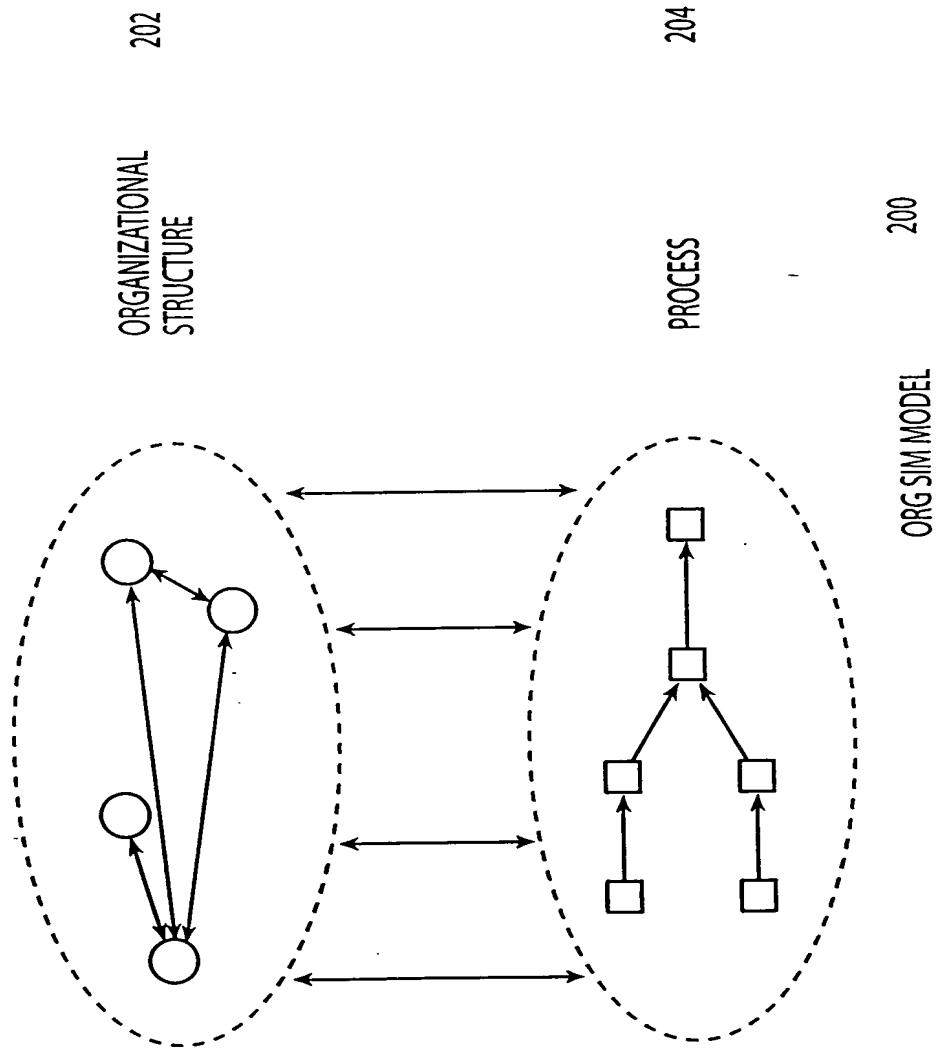


Fig. 2

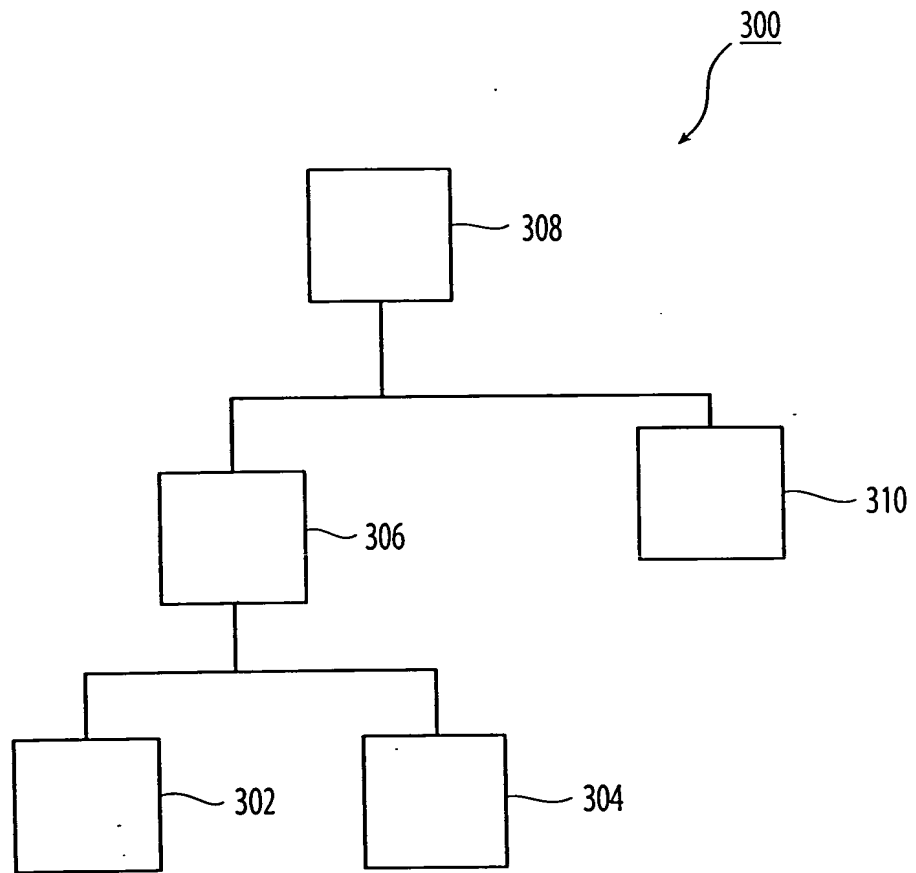


Fig. 3

PROCESS MODELS (ORGSIM)

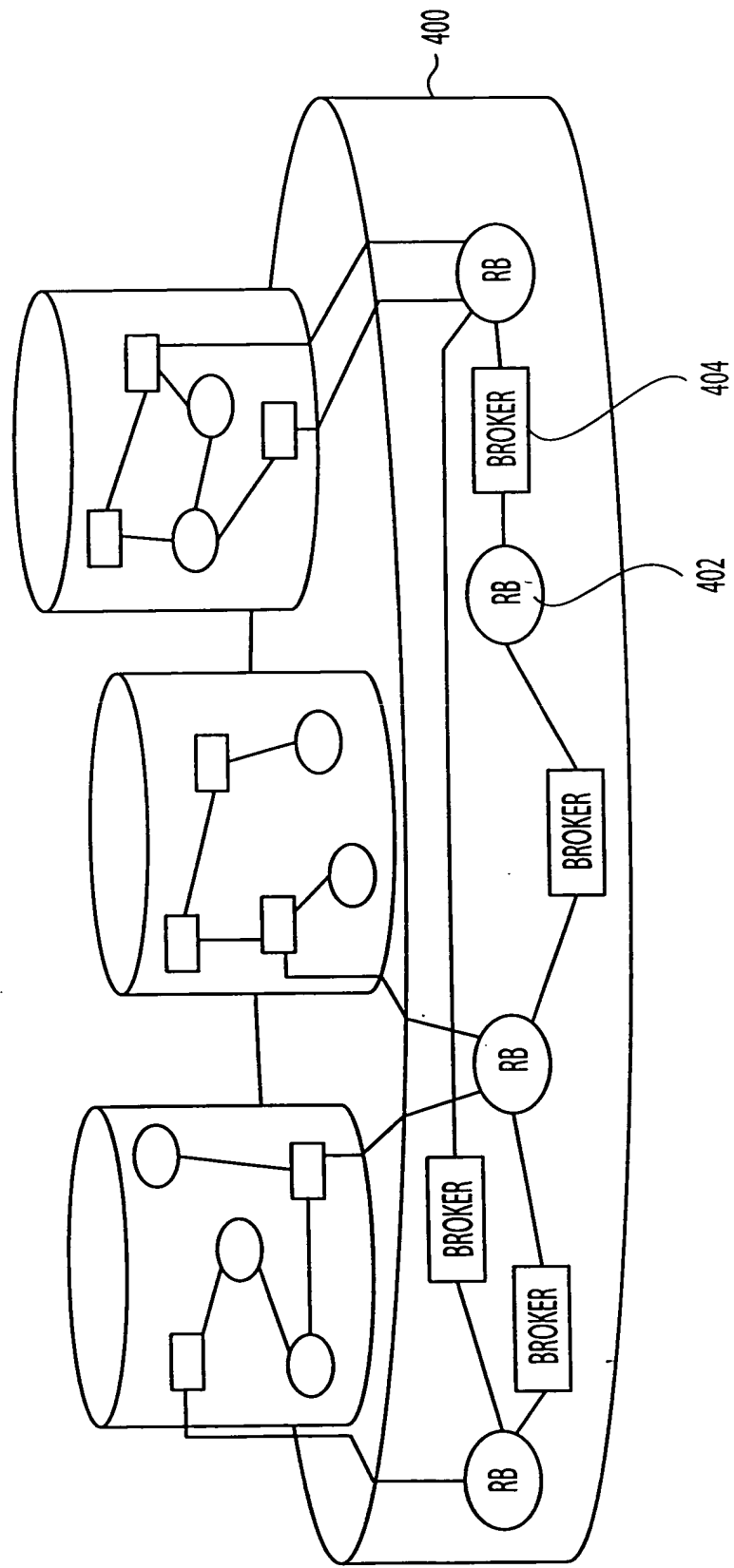


Fig. 4a

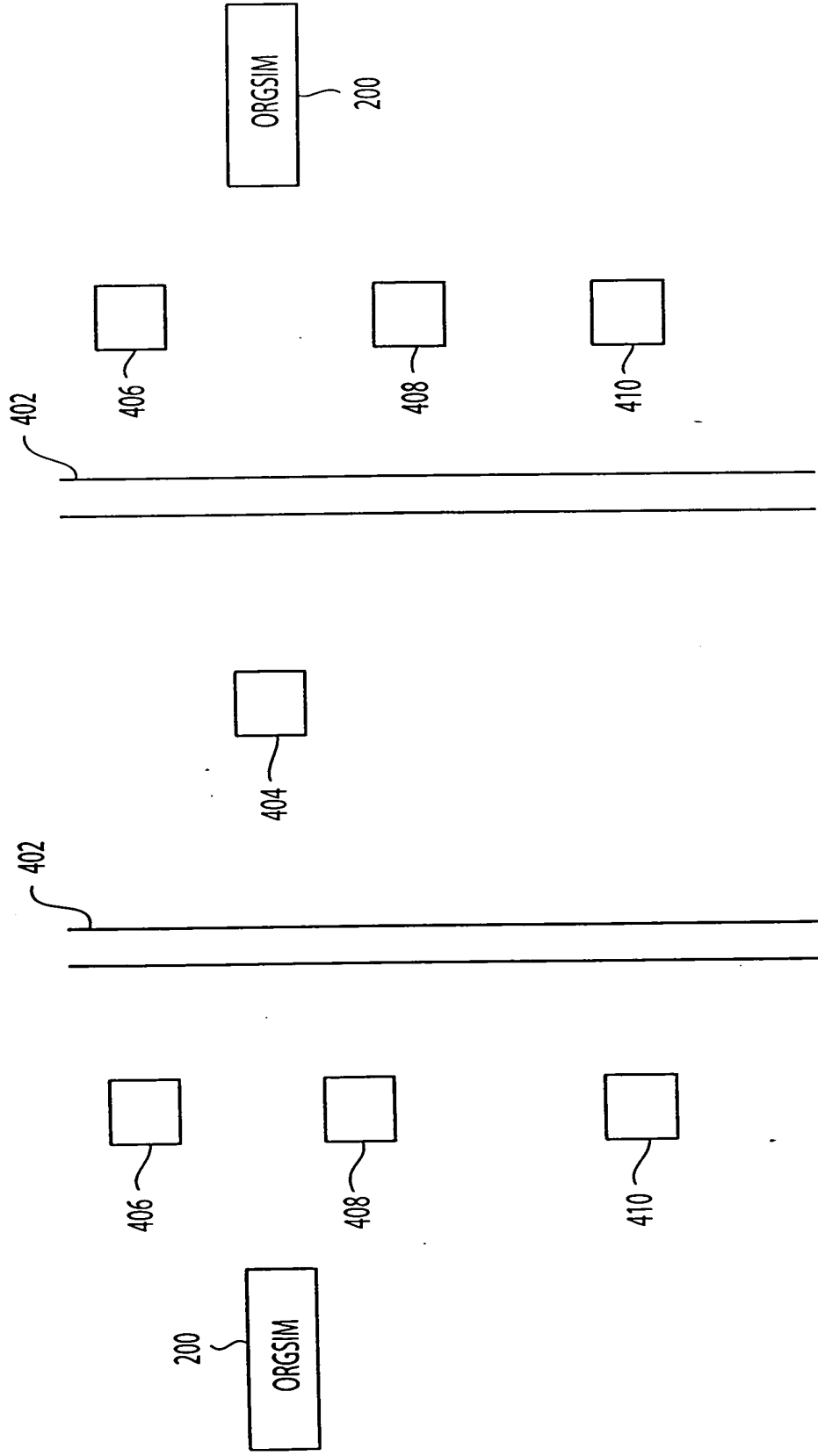


Fig. 4b

RESOURCE BUS (6): PROPAGATION

• C1 REQUESTS {B C D} 450

• P1 OFFERS {A B C D E} 452

• C1 ACCEPTS {A B C D E} 454

• (IF E NOT REQUESTED, EVENTUALLY LOST) 456

• C1 AS P2 OFFERS {A B C D} 458

• C2 REQUESTS {A B C...} ETC... 460

Fig. 4c

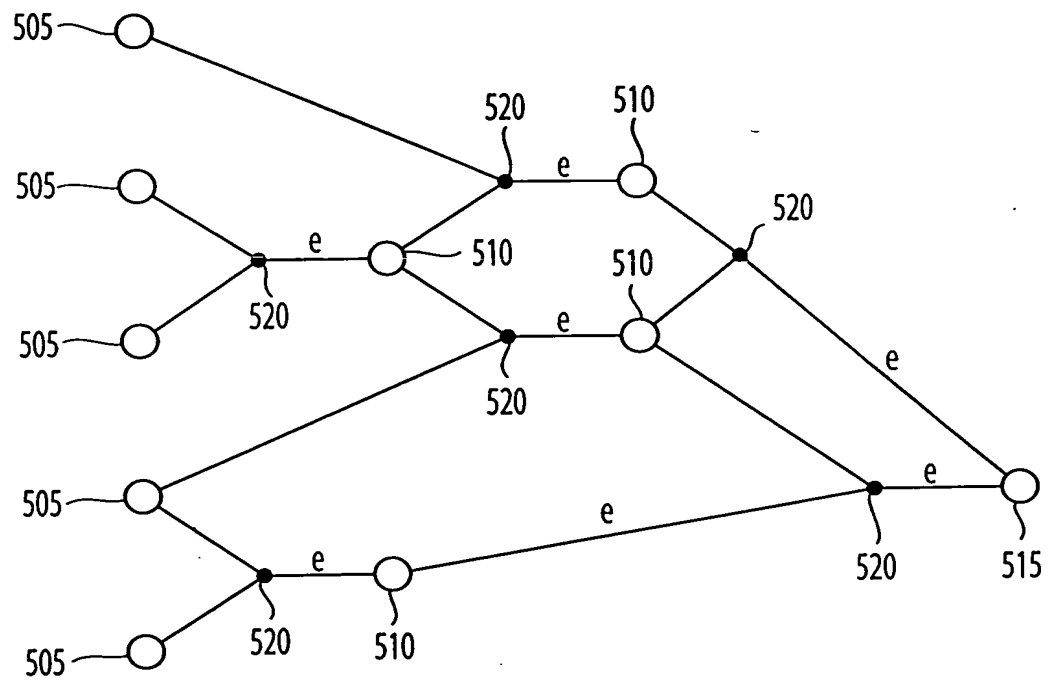


Fig. 5

FIG. 6

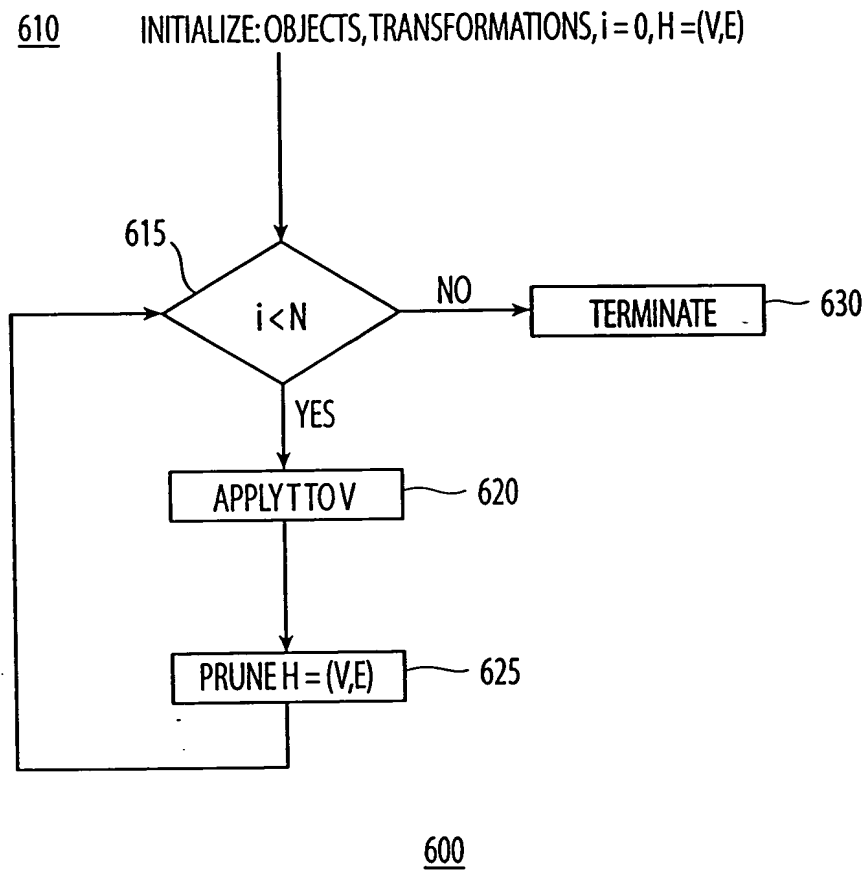


Fig. 6

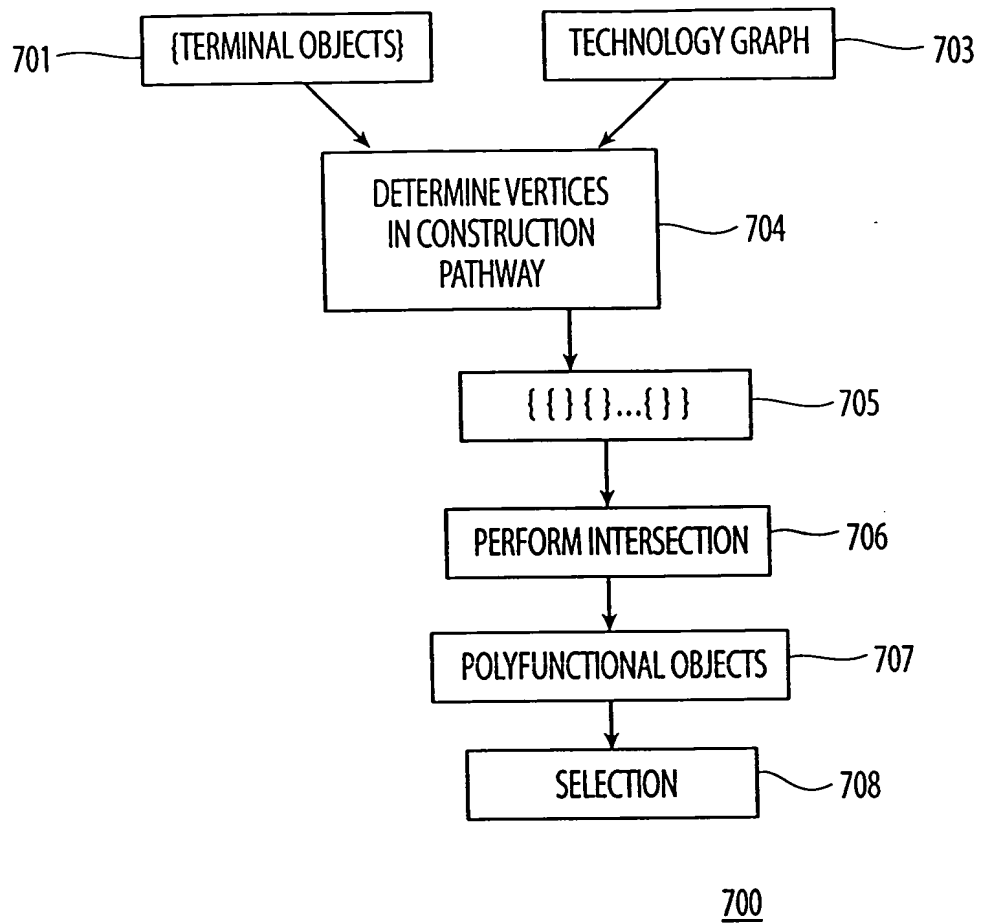


Fig. 7

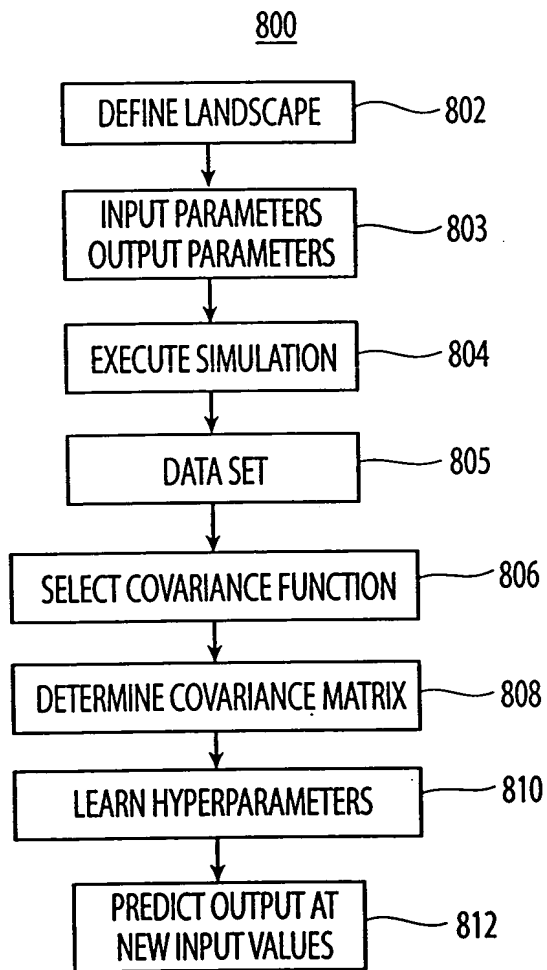


Fig. 8

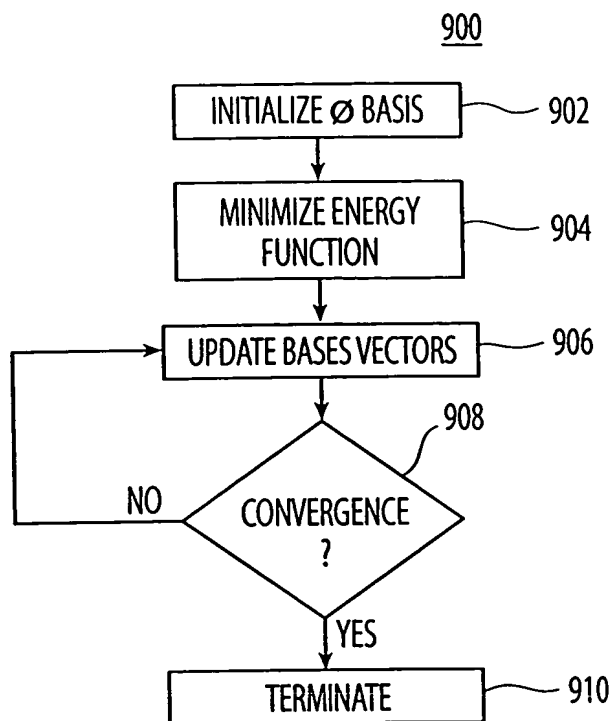


Fig. 9

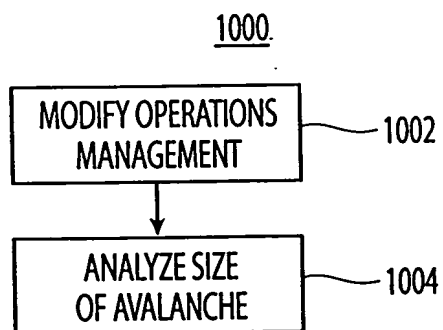


Fig. 10

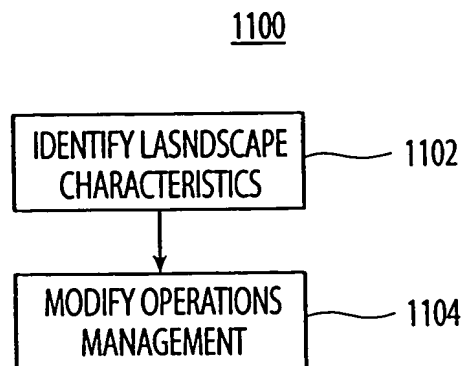


Fig. 11

1200

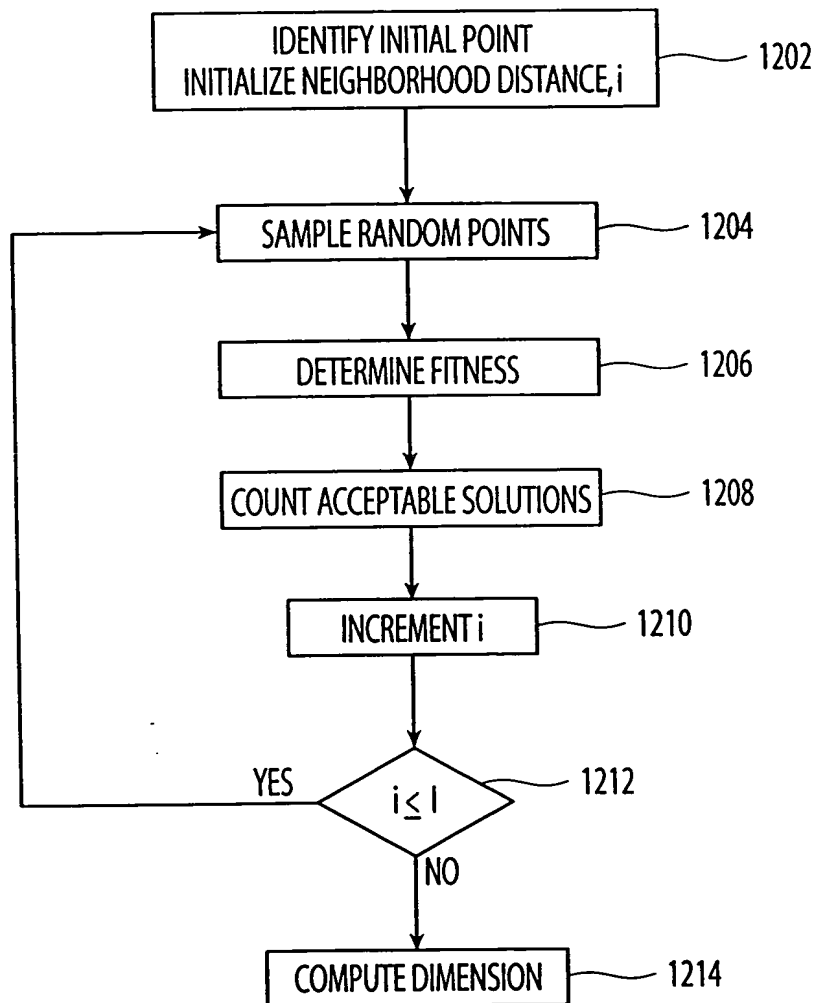


Fig. 12a

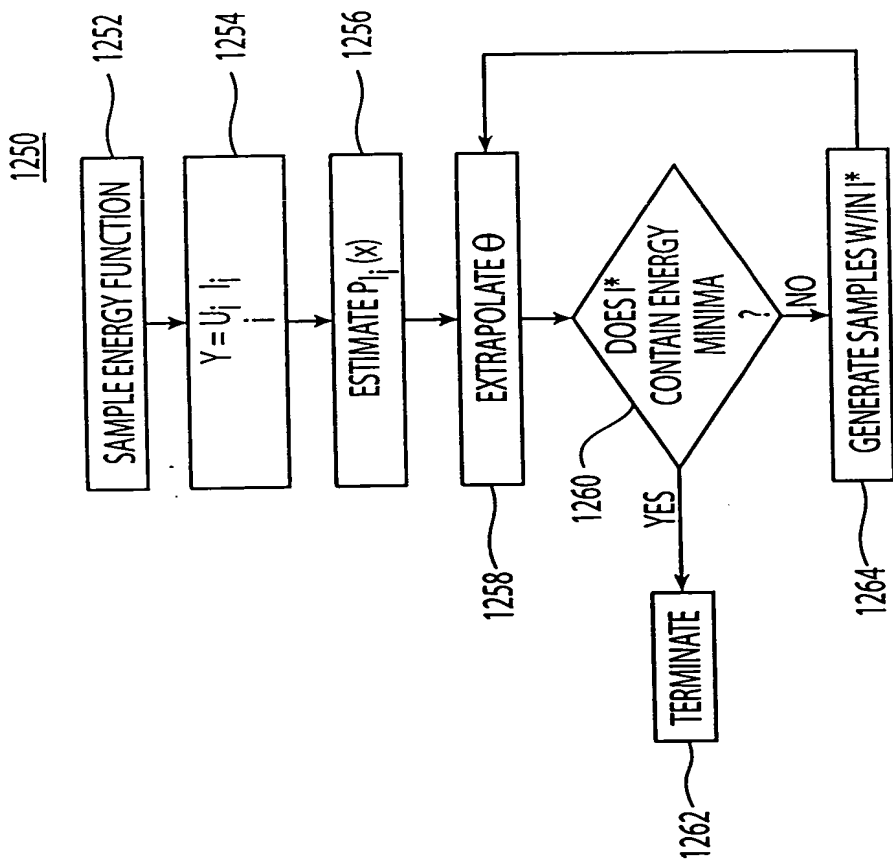
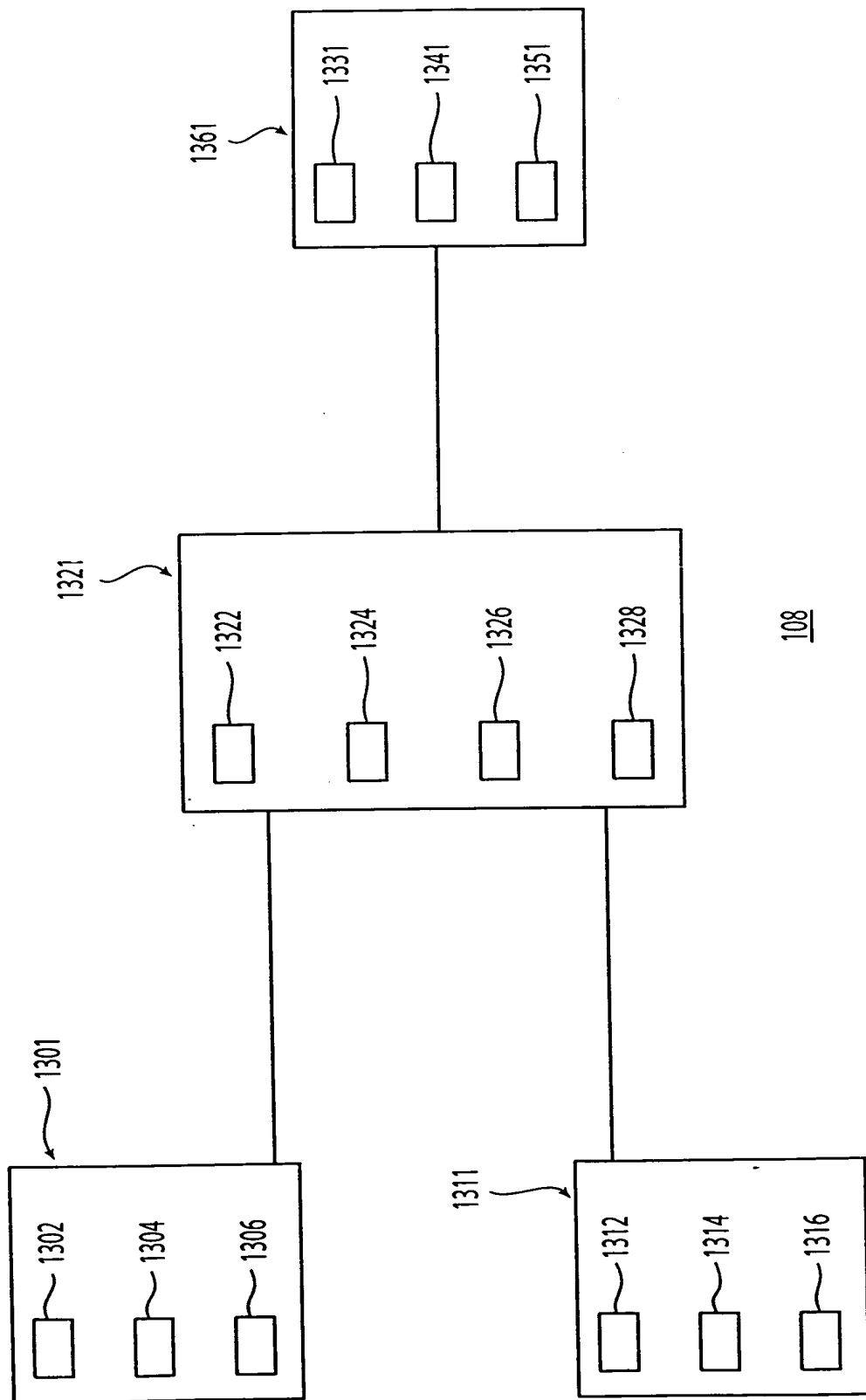


Fig. 12b



108

Fig. 13a

1350

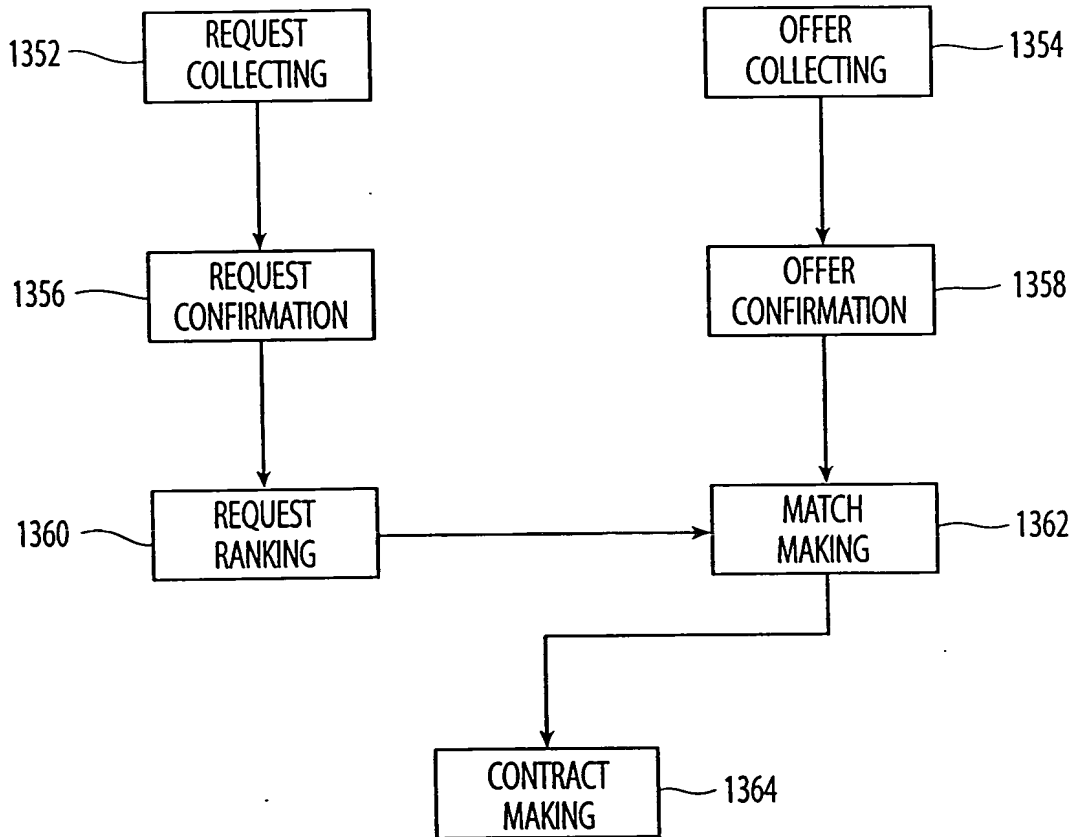


Fig. 13b

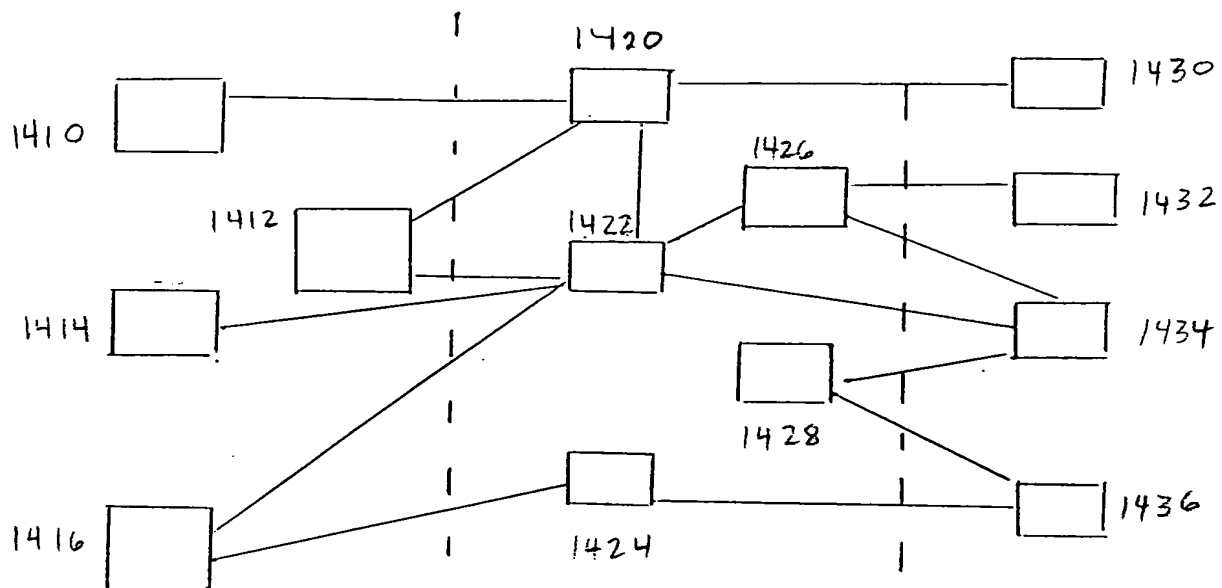


FIG. 14

FIG. 14

FIG. 15

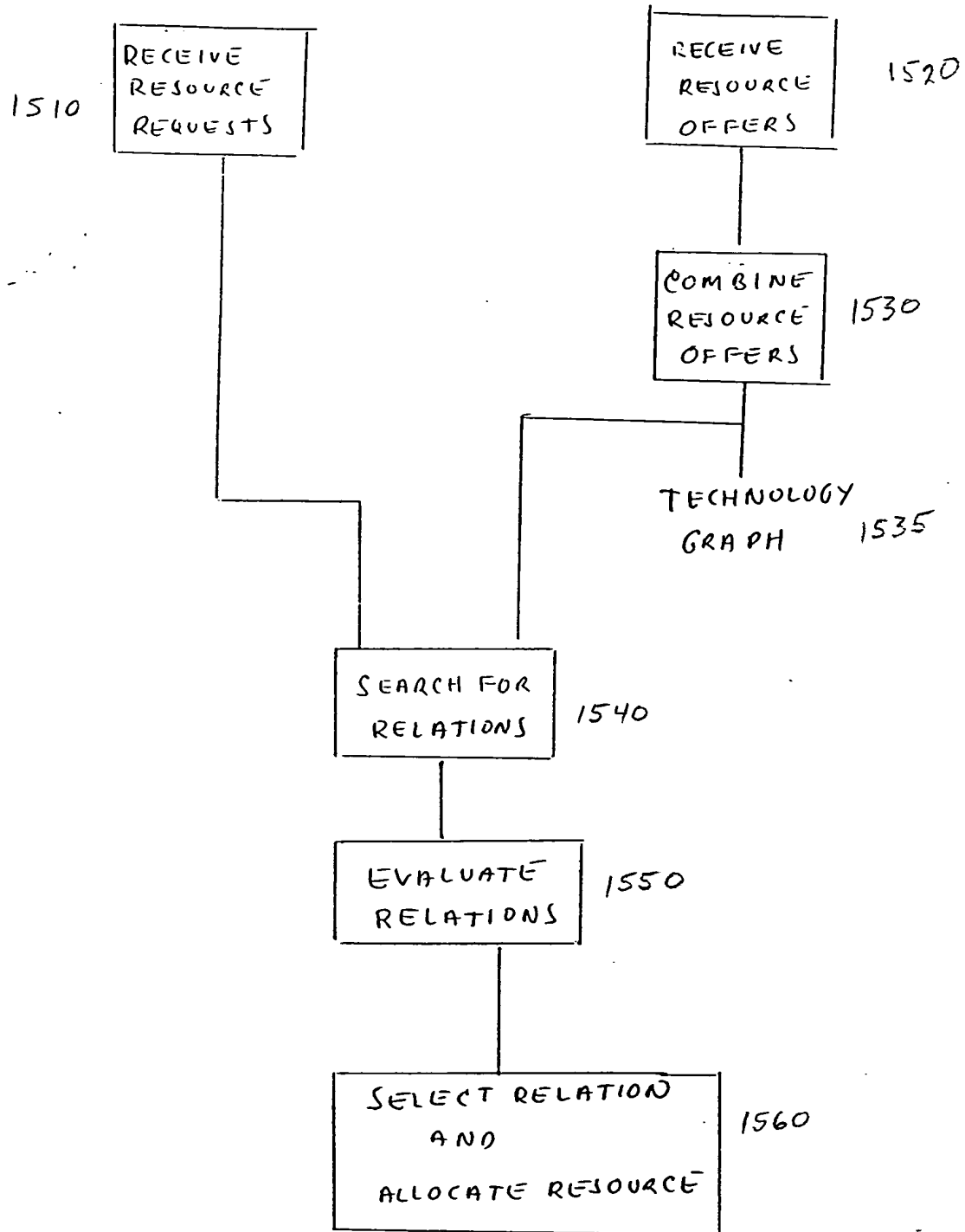


FIG. 15

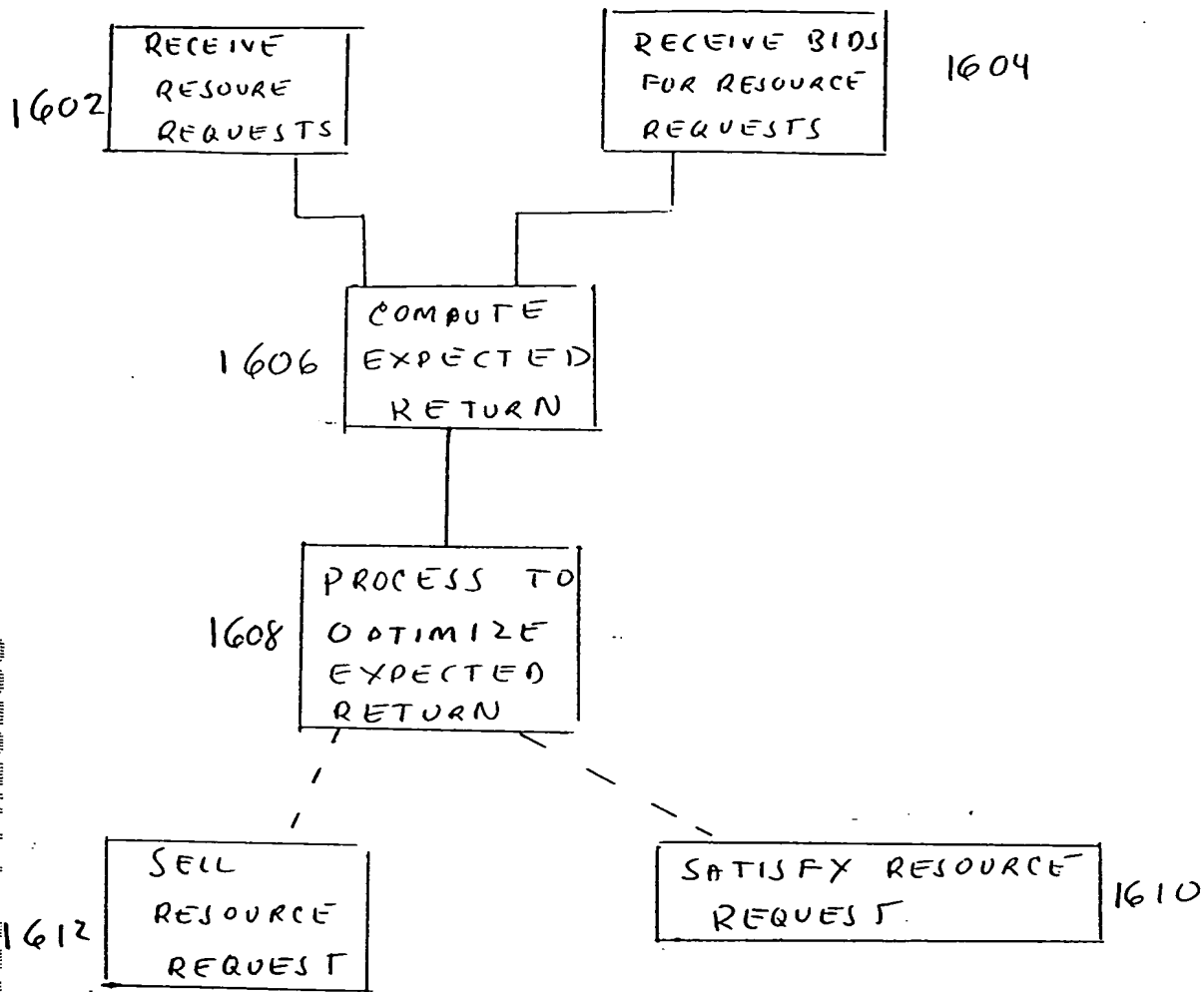


FIG. 16

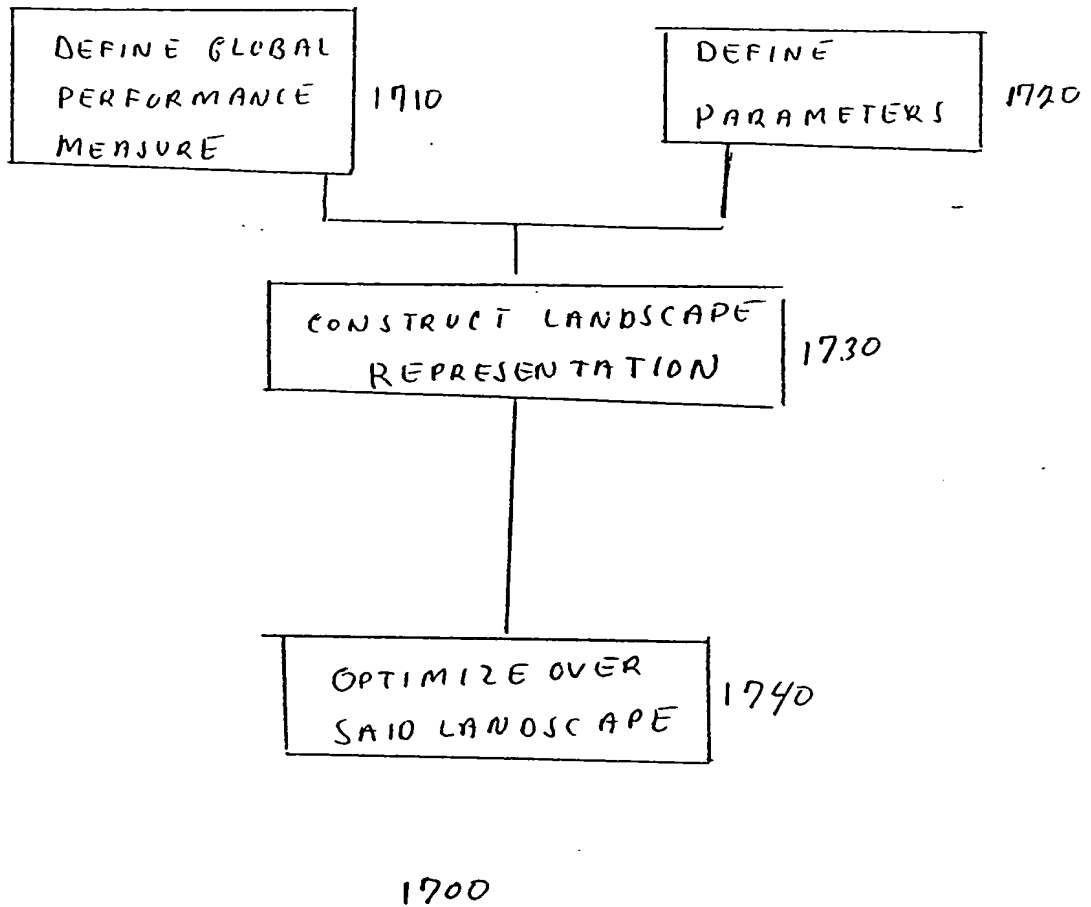


FIG. 17

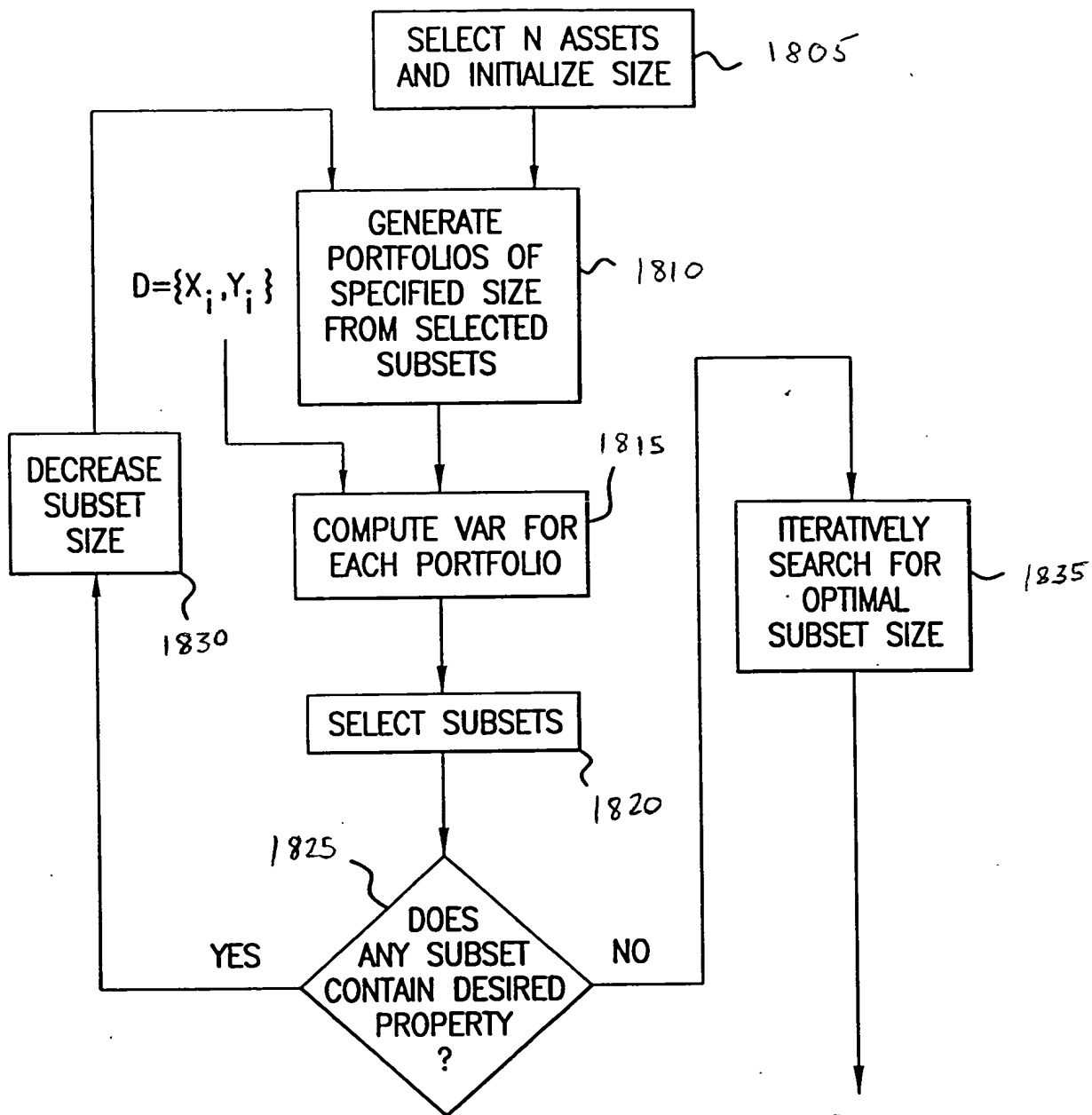
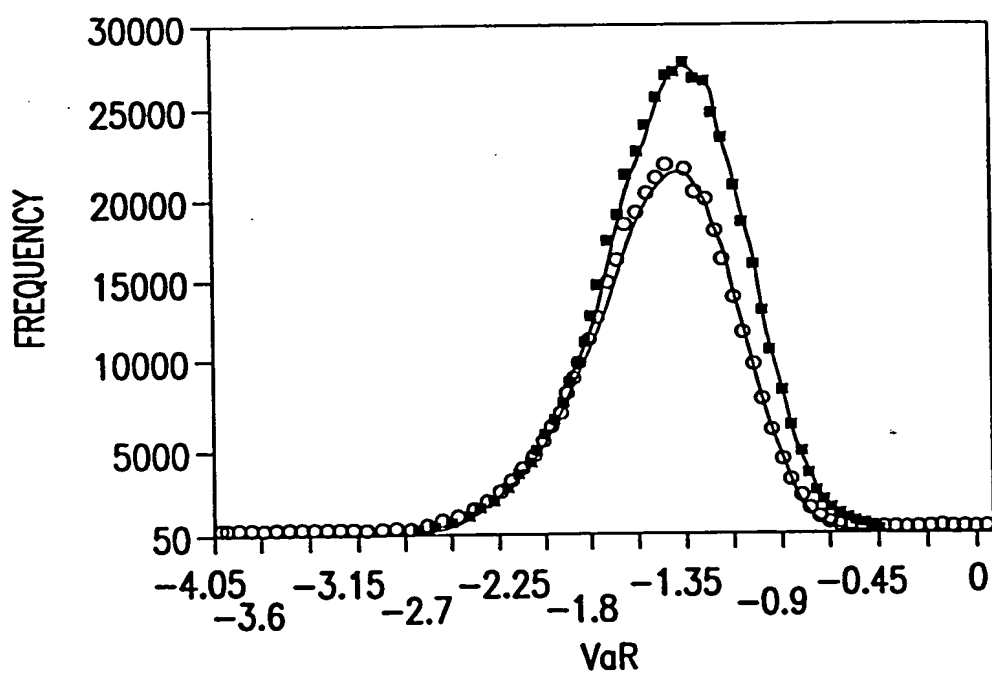
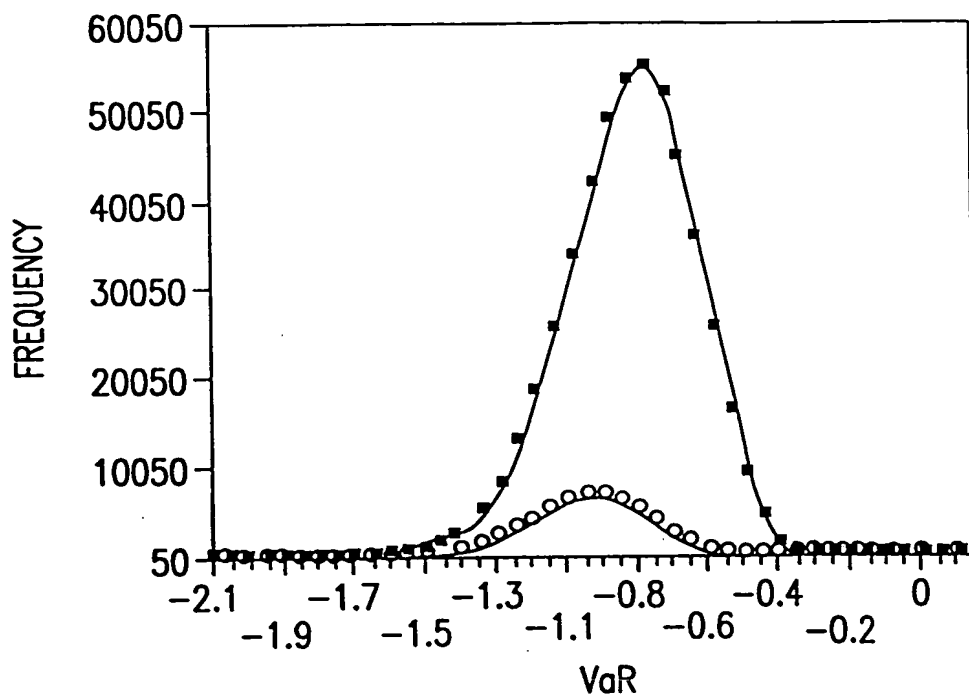


FIG. 18



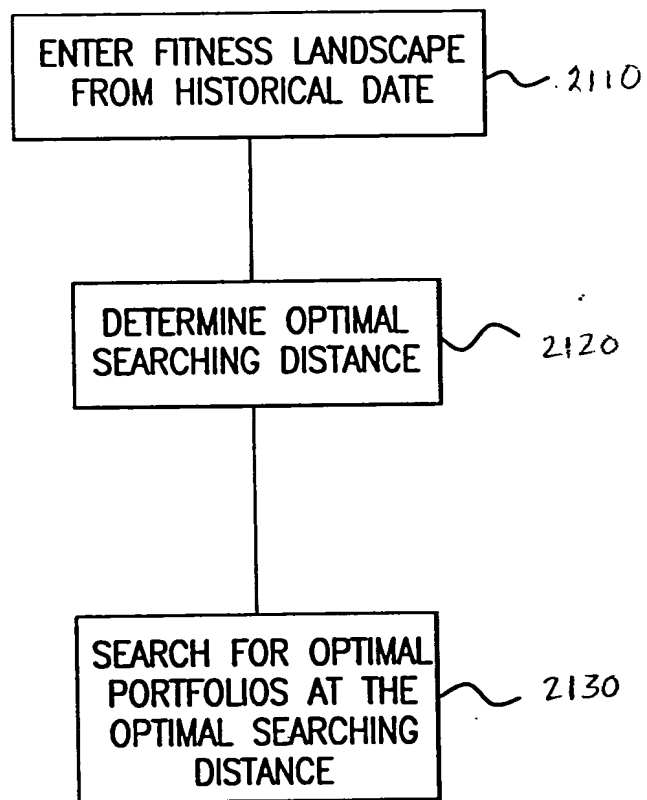


FIG. 21

$$\begin{aligned}
& \{1, 1, \{2, -1.\}\} \\
& \{1, 2, \{1, -1.\}\} \\
& \{1, 3, \{5, -0.629195\}\} \\
& \{1, 4, \{5, -0.749052\}\} \\
\{3, 5, \{3, -0.629195\}, \{4, -0.749052\}, \{24, -0.350841\}\} \\
& \{1, 6, \{8, -0.3866\}\} \\
& \{2, 7, \{8, -0.434322\}, \{9, -0.514114\}\} \\
\{3, 8, \{6, -0.3866\}, \{7, -0.434322\}, \{9, -0.332176\}\} \\
& \{2, 9, \{7, -0.514114\}, \{8, -0.332176\}\} \\
& \{2, 10, \{11, -1.\}, \{17, -0.333359\}\} \\
& \{2, 11, \{10, -1.\}, \{15, -0.311709\}\} \\
& \{1, 12, \{14, -0.889441\}\} \\
& \{1, 13, \{14, -0.411215\}\} \\
& \{2, 14, \{12, -0.889441\}, \{13, -0.4112215\}\} \\
\{3, 15, \{11, -0.311709\}, \{17, -0.593436\}, \{18, -0.602979\}\} \\
& \{2, 16, \{17, -0.503126\}, \{18, -0.52658\}\} \\
\{3, 17, \{10, -0.333359\}, \{15, -0.593436\}, \{16, -0.503126\}\} \\
& \{2, 18, \{15, -0.60979\}, \{16, -0.52658\}\} \\
& \{1, 19, \{20, -1.\}\} \\
& \{1, 20, \{19, -1.\}\} \\
& \{1, 21, \{23, -0.770342\}\} \\
& \{1, 22, \{23, -0.696416\}\} \\
\{2, 23, \{21, -0.770342\}, \{22, -0.696416\}\} \\
& \{1, 24, \{5, -0.350841\}\} \\
\{2, 25, \{26, -0.491271\}, \{27, -0.459285\}\} \\
& \{2, 26, \{25, -0.491271\}, \{27, -0.49478\}\} \\
& \{2, 27, \{25, -0.459285\}, \{26, -0.49478\}\} \\
& \{1, 28, \{29, -1.\}\} \\
& \{1, 29, \{28, -1.\}\} \\
& \{1, 30, \{32, -0.794733\}\} \\
& \{1, 31, \{32, -0.53383\}\} \\
\{2, 32, \{30, -0.794733\}, \{31, -0.53383\}\}
\end{aligned}$$

FIG. 22

{3., 1., {2., -1., {47., -0.31}, {87., -0.3}}
 {2., 2., {1., -1., {46., -0.31}}
 {2., 3., {5., -0.63}, {80., -0.34}}
 {1., 4., {5., -0.75}}
 {3., 5., {3., -0.63}, {4., -0.75}, {24., -0.35}}
 {1., 6., {8., -0.39}}
 {2., 7., {8., -0.43}, {9., -0.51}}
 {4., 8., {6., -0.39}, {7., -0.43}, {9., -0.33}, {44., -0.35}}
 {5., 9., {7., -0.51}, {8., -0.33}, {54., -0.3}, {75., -0.3}, {98., -42}}
 {3., 10., {11., -1., {17., -0.33}, {39., -0.36}}
 {2., 11., {10., -1., {15., -0.31}}
 {3., 12., {14., -0.89}, {62., -0.35}, {90., -0.3}}
 {2., 13., {14., -0.41}, {61., -0.31}}
 {4., 14., {12., -0.89}, {13., -0.41}, {82., -0.32}, {89., -0.35}}
 {5., 15., {11., -0.31}, {17., -0.59}, {18., -0.6}, {39., -0.31}, {80., -0.31}}
 {3., 16., {17., -0.5}, {18., -0.53}, {82., -0.32}}
 {4., 17., {10., -0.33}, {15., -0.59}, {16., -0.5}, {36., -0.38}}
 {2., 18., {15., -0.6}, {16., -0.53}}
 {2., 19., {20., -1., {42., -0.3}}
 {1., 20., {19., -1.}}
 {3., 21., {23., -0.77}, {45., -0.32}, {94., -0.3}}
 {2., 22., {23., -0.7}, {97., -0.32}}
 {2., 23., {21., -0.77}, {22., -0.7}}
 {1., 24., {5., -0.35}}
 {2., 25., {26., -0.49}, {27., -0.46}}
 {2., 26., {25., -0.49}, {27., -0.49}}
 {2., 27., {25., -0.46}, {26., -0.49}}
 {3., 28., {29., -1., {48., -0.31}, {76., -0.31}}
 {2., 29., {28., -1., {77., -0.3}}
 {1., 30., {32., -0.79}}
 {2., 31., {32., -0.53}, {89., -0.31}}
 {3., 32., {30., -0.79}, {31., -0.53}, {46., -0.31}}
 {2., 33., {35., -0.46}, {39., -0.31}}
 {1., 34., {36., -0.39}}
 {4., 36., {17., -0.38}, {34., -0.39}, {35., -0.51}, {54., -0.33}}
 {1., 37., {38., -1.}}
 {1., 38., {37., -1.}}
 {4., 39., {10., -0.36}, {15., -0.31}, {33., -0.31}, {41., -0.49}}
 {1., 40., {41., -0.79}}
 {2., 41., {39., -0.49}, {40., -0.79}}
 {1., 42., {19., -0.3}}
 {3., 43., {44., -0.43}, {45., -0.4}, {69., -0.31}}
 {3., 44., {8., -0.35}, {43., -0.43}, {45., -0.53}}
 {3., 45., {21., -0.32}, {43., -0.4}, {44., -0.53}}
 {3., 46., {2., -0.31}, {32., -0.31}, {47., -1.}}
 {2., 47., {1., -0.31}, {46., -1.}}
 {2., 48., {28., -0.31}, {50., -0.74}}
 {1., 49., {50., -0.72}}
 {2., 50., {48., -0.74}, {49., -0.74}}

FIG. 23A

$\{2., 51., \{53., \underline{-0.62.}, \{54., \underline{-0.57}\}\}$
 $\{0., 52.\}$
 $\{2., 53., \{51., \underline{-0.62.}, \{94., \underline{-0.38}\}\}$
 $\{4., 54., \{9., \underline{-0.3.}, \{36., \underline{0.33.}, \{51., \underline{0.57.}, \{72., \underline{0.31}\}\}\}$
 $\{1., 55., \{56., \underline{-1.}\}\}$
 $\{1., 56., \{55., \underline{-1.}\}\}$
 $\{2., 57., \{59., \underline{-0.61.}, \{91., \underline{-0.47}\}\}$
 $\{1., 58., \{59., \underline{-0.79}\}\}$
 $\{2., 59., \{57., \underline{-0.61.}, \{58., \underline{-0.79}\}\}$
 $\{1., 60., \{63., \underline{-0.45}\}\}$
 $\{3., 61., \{13., \underline{-0.31.}, \{62., \underline{-0.3.}, \{63., \underline{-0.36}\}\}\}$
 $\{3., 62., \{12., \underline{-0.35.}, \{61., \underline{-0.3.}, \{63., \underline{-0.61}\}\}\}$
 $\{3., 63., \{60., \underline{-0.45.}, \{61., \underline{-0.36.}, \{62., \underline{-0.61}\}\}\}$
 $\{1., 64., \{65., \underline{-1.}\}\}$
 $\{1., 65., \{64., \underline{-1.}\}\}$
 $\{1., 66., \{68., \underline{-0.39}\}\}$
 $\{1., 67., \{68., \underline{-0.97}\}\}$
 $\{2., 68., \{66., \underline{-0.39.}, \{67., \underline{-0.97}\}\}$
 $\{1., 69., \{43., \underline{-0.31}\}\}$
 $\{1., 70., \{72., \underline{-0.45}\}\}$
 $\{1., 71., \{72., \underline{-0.63}\}\}$
 $\{3., 72., \{54., \underline{-0.31.}, \{70., \underline{-0.45.}, \{71., \underline{-0.63}\}\}\}$
 $\{1., 73., \{74., \underline{-1.}\}\}$
 $\{1., 74., \{73., \underline{-1.}\}\}$
 $\{2., 75., \{9., \underline{-0.3.}, \{77., \underline{-0.74}\}\}$
 $\{2., 76., \{28., \underline{-0.31.}, \{77., \underline{-0.71}\}\}$
 $\{3., 77., \{29., \underline{-0.3.}, \{75., \underline{-0.74.}, \{76., \underline{-0.71}\}\}\}$
 $\{3., 78., \{80., \underline{-0.65.}, \{81., \underline{-0.6.}, \{99., \underline{-0.31}\}\}\}$
 $\{2., 79., \{80., \underline{-0.5.}, \{81., \underline{-0.44}\}\}$
 $\{4., 80., \{3., \underline{-0.34.}, \{15., \underline{-0.31.}, \{78., \underline{-0.65.}, \{79., \underline{-0.5}\}\}\}\}$
 $\{2., 81., \{78., \underline{-0.6.}, \{79., \underline{-0.44}\}\}$
 $\{3., 82., \{14., \underline{-0.32.}, \{16., \underline{-0.32.}, \{83., \underline{-1.}\}\}\}$
 $\{1., 83., \{82., \underline{-1.}\}\}$
 $\{1., 84., \{86., \underline{-0.59}\}\}$
 $\{1., 85., \{86., \underline{-0.85}\}\}$
 $\{2., 86., \{84., \underline{-0.59.}, \{85., \underline{-0.85}\}\}$
 $\{1., 87., \{1., \underline{-0.3}\}\}$
 $\{0., 88.\}$
 $\{3., 89., \{14., \underline{-0.35.}, \{31., \underline{-0.31.}, \{90., \underline{-0.92}\}\}\}$
 $\{2., 90., \{12., \underline{-0.3.}, \{89., \underline{-0.92}\}\}$
 $\{1., 91., \{57., \underline{-0.47}\}\}$
 $\{0., 92.\}$
 $\{0., 93.\}$
 $\{2., 94., \{21., \underline{-0.3.}, \{53., \underline{-0.38}\}\}$
 $\{0., 95.\}$
 $\{0., 96.\}$
 $\{1., 97., \{22., \underline{-0.32}\}\}$
 $\{1., 98., \{9., \underline{-0.42}\}\}$
 $\{1., 99., \{78., \underline{-0.31}\}\}$
 $\{0., 1.0 \times 10^2\}$

FIG. 236

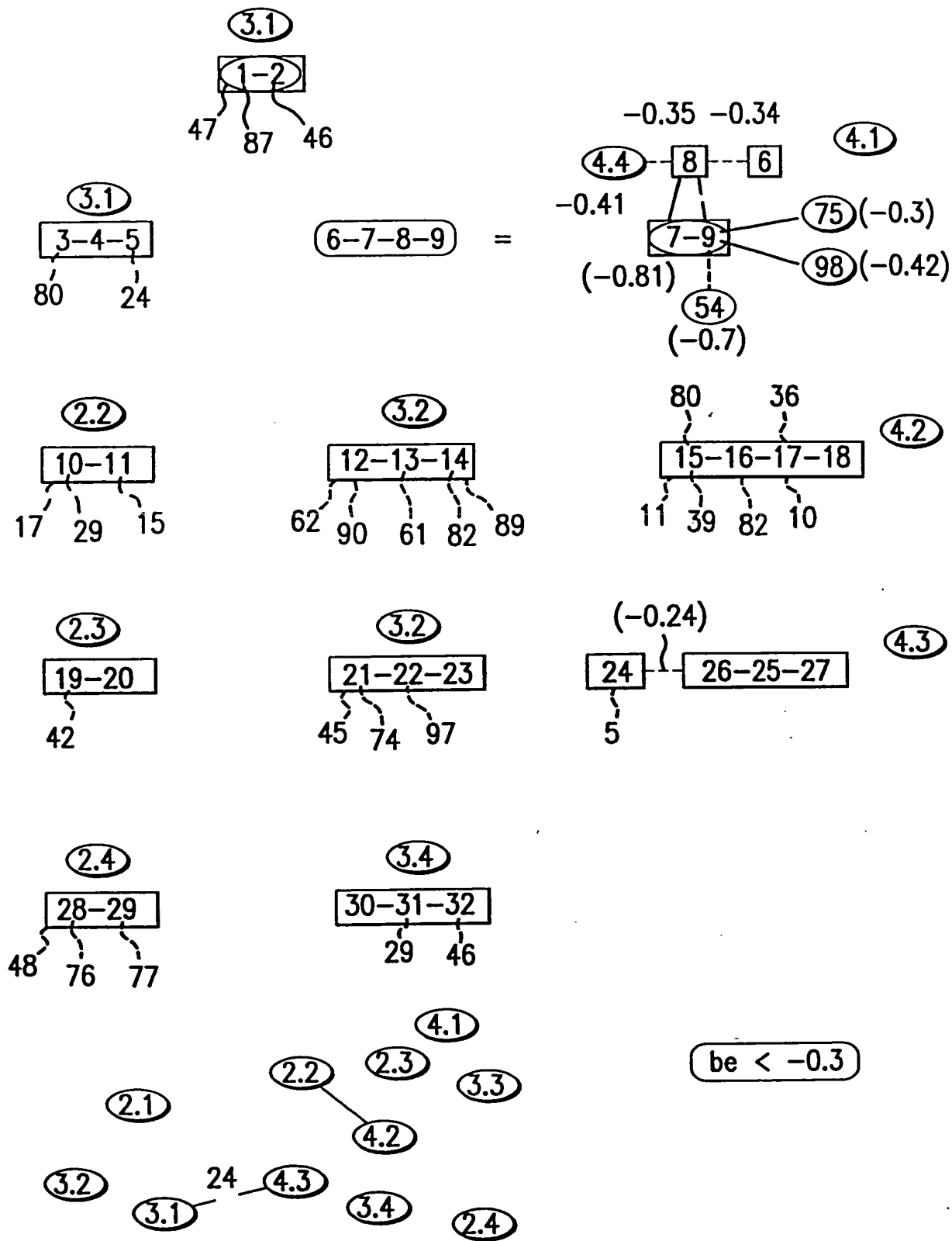
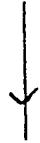


FIG. 24

FOUO: FHS60

DETERMINE RELATIONS 2510



CONSTRUCT GRAPH
REPRESENTATION 2520



DETERMINE PATHS 2530



DETERMINE GROUP OF RESOURCES 2540
ON PATHS HAVING MINIMAL RISK

2500

FIG. 25

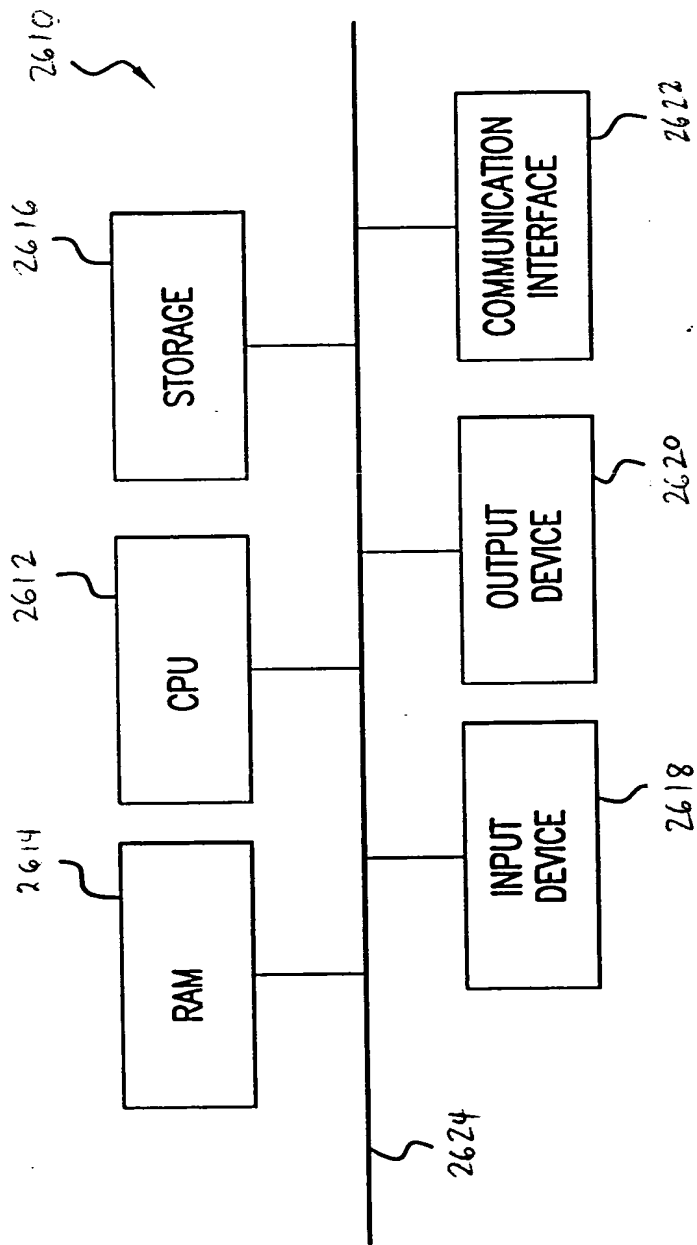


FIG. 26